

New isolated **CYP3A4 polymorphic** sequences

and DNA **probe** used for disease diagnosis, drug screening and cell-free models, etc.

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AB Isolated nucleic acid molecules containing a **CYP3A4** sequence .
polymorphism, as part of other than a naturally occurring
chromosome is new. Also claimed are: a DNA **probe**; a method for
detecting in an individual a **polymorphism** in **CYP3A4**
metabolism of a substrate; and an array of oligonucleotide containing
the
nucleic acid molecules. The nucleic acids can be used to screen
patients
for altered metabolism for **CYP3A4** substrates, potential
drug-drug interactions, and adverse/side effects as well as diseases
that
result from environmental or occupational exposure to toxins. They can
also be used to establish animal, cell culture and in vitro cell-free
models for drug metabolism. **Polymorphic CYP3A4** gene
sequences can be used for expression studies to determine the effect of
promoter and/or **intron** sequence variations on mRNA expression
and stability. The **polymorphisms** can also be used as single
nucleotide **polymorphisms** to detect genetic linkage to
phenotypic variation in activity and expression of **CYP3A4**. The
nucleic acids can also be used to generate genetically modified
non-human
animals or site specific gene modifications in cell lines. (39pp)

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